

What is claimed is:

1. A photovoltaic module adapted for attachment to supporting structure on buildings, vehicles, or other fixed or mobile structure, comprising a photovoltaic element including one or more photovoltaic solar cells each with one side arranged to receive sun rays thereon for generating electrical current in response to sun light impinging thereon and another side facing the support structure, said solar cell(s) being encapsulated between sealant, adhesive layers to form the photovoltaic element, said photovoltaic element including a back protection layer made from polyester type film, a reinforcing support sheet, and an adhesive material being adhesively attached between said reinforcing support sheet and said protection layer, said adhesive material being adapted to be applied to said reinforcing support sheet during final installation at room temperature.
2. The photovoltaic module as defined in claim 1, wherein the adhesive in said adhesive material is ethylene vinyl acetate.
3. The photovoltaic module as defined in claim 1, wherein the adhesive in said adhesive material is at least one selected from the group of acrylic adhesive, silicone adhesives, urethane adhesive and epoxy adhesive.
4. The photovoltaic module as defined in claim 1, wherein the thickness of said adhesive material ranges between 0.03 and 3.0 mm.

5. The photovoltaic module as defined in claim 4, wherein the dielectric breakdown voltage of said protection film is at least 10 kV.
6. The photovoltaic module as defined in claim 1, wherein said insulating film is one selected from polyester, polyethylene terephthalate, nylon and the like.
7. The photovoltaic module as defined in claim 1, wherein said reinforcing sheet is made of one selected from steel, plastic sheet, aluminum composite material(ACM), glass, fiberglass reinforced panel
8. The method for producing a photovoltaic element having one or more solar cells and applying the same to a reinforcing support sheet with the solar cell(s) facing sunlight for the impingement of sunlight thereon, comprising the steps of stacking in order:: a cover face plate having an adhesive layer provided on one surface thereof being applied to the side(s) of the solar cell(s) facing sunlight, an insulating protection layer with adhesive material applied between the same and the other side of the solar cell(s), laminating said cover plate and said protection layer with said solar cells therebetween, and bonding said reinforcing sheet to said protection layer with adhesive material at room temperature.
9. The method as defined in claim 8, wherein said insulating layer is one selected from polyester, polyethylene teraphthalate, and nylon.